

In the Drawings

Please replace figure 1 with the enclosed new figure 1. No new matter was added as there is adequate support in the specification.

In the Claims

1. (currently amended) An electrochemical gas sensor, comprising:
a substrate having a surface;
a first electrode deposited on said surface;
a second electrode spaced apart from said surface; and
an electrolyte support placed between said surface and said second electrode and having a predetermined porosity; wherein said electrolyte support is in a solid state and further comprises a plurality of columns.
2. (cancelled)
3. (original) The electrochemical gas sensor according to claim 2, further including electrolyte being placed between said plurality of columns.
4. (original) The electrochemical gas sensor according to claim 3, further including a coating on said second electrode for preventing flooding by said electrolyte.
5. (original) The electrochemical gas sensor according to claim 1, wherein said electrolyte support further includes a cap.
6. (original) The electrochemical gas sensor according to claim 2, wherein said plurality of columns are helix shaped.

7. (original) The electrochemical gas sensor according to claim 3, wherein said electrolyte is an acid solution.
8. (original) The electrochemical gas sensor according to claim 1, wherein said predetermined porosity is in the range of between 5% and 80%.
9. (original) The electrochemical gas sensor according to claim 1, wherein said predetermined porosity is in the range of between 5% and 50%.
10. (original) The electrochemical gas sensor according to claim 1, wherein said predetermined porosity includes a pore size in the range of between .0002 and 10 microns.
11. (original) The electrochemical gas sensor according to claim 1, wherein said predetermined porosity includes a pore size in the range of between .0002 and 2 microns.
12. (original) The electrochemical gas sensor according to claim 1, wherein said second electrode has a porosity magnitudes less than said electrolyte support.
13. (original) The electrochemical gas sensor according to claim 1, wherein said second electrode further includes a porosity of less than 5% and a pore size not exceeding the smaller of either a width or length of said second electrode at a pore's greatest measurement.

14. (original) The electrochemical gas sensor according to claim 1, wherein said second electrode provides improved lamination to said electrolyte support. 15-23. (withdrawn)

15-23 (withdrawn)

24. (new) An electrochemical gas sensor, comprising:
a substrate having a surface;
a first electrode deposited on said surface;
a second electrode spaced apart from said surface; and
an electrolyte support placed between said surface and having a pore size between .0002 and 10 microns.